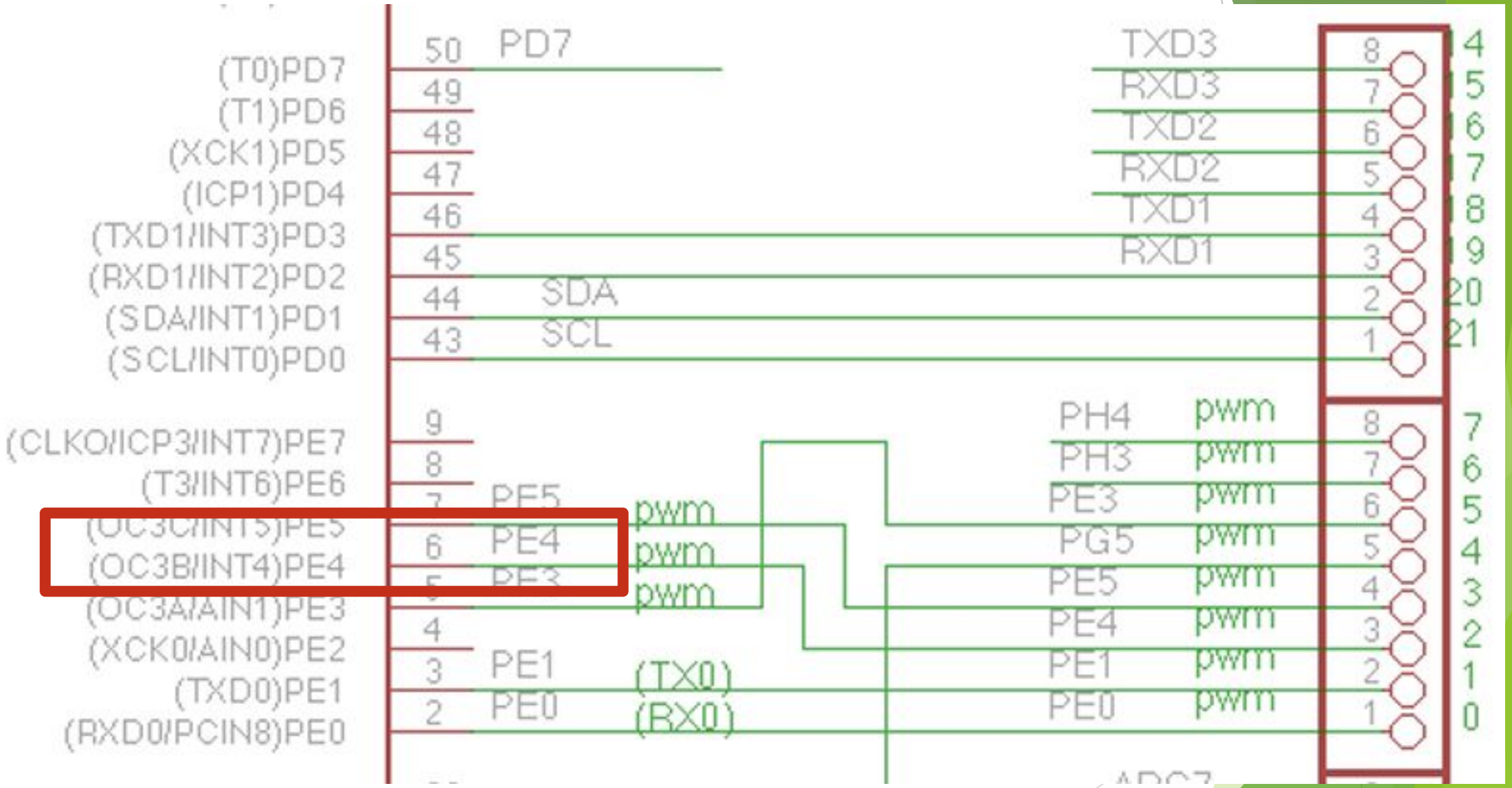
EXPERIMENTO 00 – Progração de Registradores

Sistema Microcontrolados


(T0)PD7
(T1)PD6
(XCK1)PD5
(ICP1)PD4
(TXD1/INT3)PD3
(RXD1/INT2)PD2
(SDA/INT1)PD1
(SCL/INT0)PD0
(CLKO/ICP3/INT7)PE7
(T3/INT6)PE6
(OC3C/INT5)PE5
(OC3B/INT4)PE4
(OC3A/AIN1)PE3
(XCK0/AIN0)PE2
(TXD0)PE1
(RXD0/PCIN8)PE0
50 PD7
49
48
47
46
45
44 SDA
43 SCL
9
8
7 PE5
6 PE4
5 PE3
4
3 PE1
2 PE0
pwm
pwm
pwm
(TX0)
(RX0)
TXD3
RXD3
TXD2
RXD2
TXD1
RXD1
PH4 pwm
PH3 pwm
PE3 pwm
PG5 pwm
PE5 pwm
PE4 pwm
PE1 pwm
PE0 pwm
8 7 6 5 4 3 2 1
4 5 6 7 8 9 20 21
8 7 6 5 4 3 2 1
7 6 5 4 3 2 1 0

Setup

```
DDRE = B11111110;  // sets Arduino pins 1 to 7 as outputs, pin 0 as input
DDRE = DDRE | B11111100;  // this is safer as it sets pins 2 to 7 as outputs
                          // without changing the value of pins 0 & 1, which are RX & TX
DDRE |= B11111100;
```

Loop

```
PORTE |= B00000100; // Pin D2 to HIGH
PORTE &= B11111011; // Pin D2 to LOW
  delay(100);
```

```
TCCR0A |= (1 << WGM01); // seta o bit WGM01 para 1
TCCR0A &= ~(1 << WGM00); // zera o bit WGM00
 TCCR0B &= ~(1 << WGM02); // zera o bit WGM02
```